

CLAIMS:

1 A video signal recording apparatus comprising:

a video and audio memorizing section for temporarily  
memorizing an inputted video audio signal;

5 an auxiliary information memorizing section for  
temporarily memorizing auxiliary information appended to the  
video audio signal;

a memory control device for controlling write and read  
operations of the video audio signal with respect to the video  
10 and audio memorizing section and controlling write and read  
operations of the auxiliary information with respect to the  
auxiliary information memorizing section; and

a recording device for sequentially recording the video  
audio signal read from the video and audio memorizing section  
15 and the auxiliary information read from the auxiliary  
information memorizing section on a recording medium, wherein

the memory control device stores the video audio signals  
equivalent to a time length equal to or exceeding an amount  
of time required from a time point when a recording-start request  
20 with respect to the recording medium is made until the recording  
actually starts with respect to the recording medium in the  
video and audio memorizing section to thereby delay the video  
audio signals by an amount of time during which the video audio  
signals are stored and records the delayed video audio signals  
25 on the recording medium, and

the memory control device further stores the auxiliary  
information appended to the video audio signals in the auxiliary  
information memorizing section for a time period substantially  
equal to the delay of the video audio signals to thereby delay  
30 the auxiliary information by an amount of time during which  
the auxiliary information is stored and records the delayed  
auxiliary information on the recording medium.

2. A video signal recording apparatus as claimed in Claim

1, wherein

the auxiliary information includes time code information for specifying a chronological position on the video audio signal, absolute time information of the video audio signal, and position information at the time of photographing the video audio signal.

3. A video signal recording apparatus as claimed in Claim 1, wherein

the recording medium is a recording medium of a tape type, and

the auxiliary information is a CUE audio signal recorded in a linear track along a longitudinal direction of the tape in the recording medium, wherein the CUE audio signal is an audio signal of a channel optionally selected from the video audio signals or an audio signal combining the optionally selected audio signals of a plurality of channels.

4. A video signal recording apparatus as claimed in Claim 1, wherein

the memory control device controls the write operations with respect to the video and audio memorizing section and the auxiliary information memorizing section so as to implement an intermittent video photographing per an interval shorter than the amount of time required from the time point when the recording-start request with respect to the recording medium is made until the recording actually starts with respect to the recording medium.

5. A video signal recording apparatus as claimed in Claim 1, wherein

the recording device reads a time code in the previously recorded auxiliary information previously recoded on the recording medium and positioned immediately prior to a next recording-start position on the recording medium, generates a regeneration value obtained by adding a frame time to the

read time code, and replaces the time code in the previously recorded auxiliary information outputted from the auxiliary information memorizing section immediately before the next recording starts with a serial value starting with the regeneration value to thereby record the auxiliary information with the replacing result in the next recording, and

the recording device corrects the regeneration value in the generation process thereof by an amount of delay corresponding to a storage volume memorized in the auxiliary information memorizing section to thereby reflect the corrected regeneration value on a state at the time of time code generation so that a time difference between times corresponding to the time code on the recording medium and the time code generation is eliminated.